

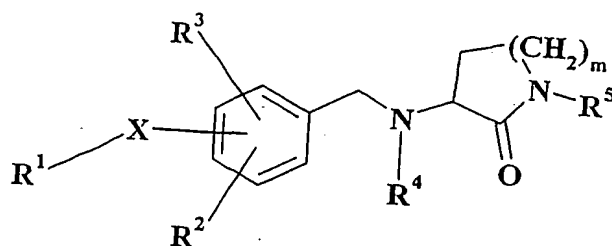
AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1-6 (canceled)

7. (new) A compound of general formula I



I

Wherein

m is an integer from 1 to 3

X is methylene, oxygen, sulphur or a NR⁶ group;

R¹ is a straight or branched C₁-C₈ alkyl or C₃-C₈ alkenylene or C₃-C₈ alkynylene chain, optionally substituted with CF₃, phenyl, phenoxy or naphthyl or phenyl, the aromatic rings optionally substituted by one or more C₁-C₄ alkyl, halogens, trifluoromethyl, hydroxy or C₁-C₄ alkoxy groups;

R², R³ are independently hydrogen, a C₁-C₃ alkyl chain, halogen, trifluoromethyl, hydroxy or C₁-C₄ alkoxy groups;

R⁴, R⁵, R⁶ are independently hydrogen or C₁-C₆ alkyl ; and the pharmaceutically acceptable salts thereof.

8. (new) The compound according to claim 7, provided that:
- when R¹ is phenyl, benzyl, 2-phenethyl or 3-phenpropyl optionally and independently substituted on the phenyl ring by

one or two C₁-C₆ alkyl, halogen, hydroxy, C₁-C₄ alkoxy or trifluoromethyl and X is oxygen, sulphur, methylene or -NH-, at least one of R² or R³ is other than hydrogen;

- if m is 3, R¹-X 4-benzyloxy, R², R⁴ and R⁵ hydrogen then R³ is other than 3-methoxy, and

- if m is 3, R¹-X 3-benzyloxy, R², R⁴ and R⁵ hydrogen then R³ is other than 4-methoxy.

9. (new) The use of a compound according to claim 7 having the general formula I as specified in claim 1, wherein m is 1 or 2, X is oxygen or methylene or NH or NCH₃, R¹ is C₁-C₈ alkyl chain, optionally substituted with CF₃, phenyl or phenoxy group, where the aromatic ring in R¹ is optionally substituted by one or two halogen or methoxy or trifluoromethyl groups, R² and R³ are hydrogen, methyl, methoxy, fluorine, chlorine or bromine, R⁴ and R⁵ are hydrogen or methyl, halogen is chlorine or fluorine.

10. (new) The compound according to claim 7 wherein the compound is selected from the group consisting of:

- 3- (4-Butyloxy-benzylamino)-pyrrolidin-2-one;
- 3- [4- (4-trifluorobutyloxy)-benzylamino]-pyrrolidin-2-one;
- 3- (4-Pentyloxy-benzylamino)-pyrrolidin-2-one;
- 3- [4- (5-trifluoropentyloxy)-benzylamino]-pyrrolidin-2-one;
- 3- (4-Phenylethyl-benzylamino)-pyrrolidin-2-one;
- 3- (4-Benzyloxy-benzylamino)-pyrrolidin-2-one;
- 3- (4-Phenylbutoxy-benzylamino)-pyrrolidin-2-one;
- 3- (4-Phenylpentyloxy-benzylamino)-pyrrolidin-2-one;
- 3- (4-Phenylallyloxy)-benzylamino-pyrrolidin-2-one;
- 3- (4-Phenoxyethoxy-benzylamino)-pyrrolidin-2-one;
- 3- [4- (Naphthalen-1-ylmethoxy)-benzylamino]-pyrrolidin-2-one;
- 3- (4-Pentyloxy-3-fluoro-benzylamino)-pyrrolidin-2-one;
- 3- (4-Pentyloxy-3-chloro-benzylamino)-pyrrolidin-2-one;
- 3- (4-Pentyloxy-3-bromo-benzylamino)-pyrrolidin-2-one;
- 3- (4-Pentyloxy-3-methoxy-benzylamino)-pyrrolidin-2-one;

3- (4-Pentyloxy-3-methyl-benzylamino) -pyrrolidin-2-one;
3- (4-Benzyloxy-3-fluoro-benzylamino) -pyrrolidin-2-one;
3- (4-Benzyloxy-3-bromo-benzylamino) -pyrrolidin-2-one;
3- (4-Benzyloxy-3-methoxy-benzylamino) -pyrrolidin-2-one;
3- (4-Benzyloxy-3-methyl-benzylamino) -pyrrolidin-2-one;
3- (4-Phenylpentoxy-2-chloro-benzylamino) -pyrrolidin-2-one; 3-
(4-Phenylpentoxy-3-bromo-benzylamino) -pyrrolidin-2-one; 3- (4-
Phenylpentoxy-3-methoxy-benzylamino) -pyrrolidin-2-one;
3- (4-Phenylpentoxy-3-methyl-benzylamino) -pyrrolidin-2-one; 3-
(4-Phenylallyloxy-2-chloro-benzylamino) -pyrrolidin-2-one;
3- (4-Phenylallyloxy-3-fluoro-benzylamino) -pyrrolidin-2-one;
3- (4-Phenylallyloxy-3-bromo-benzylamino) -pyrrolidin-2-one; 3-
(4-Phenylallyloxy-3-methoxy-benzylamino) -pyrrolidin-2-one;
3- (4-Phenylallyloxy-3-methyl-benzylamino) -pyrrolidin-2-one;
3- (4-Phenoxyethoxy-2-chloro-benzylamino) -pyrrolidin-2-one; 3-
(4-Phenoxyethoxy-3-fluoro-benzylamino) -pyrrolidin-2-one; 3- (4-
Phenoxyethoxy-3-bromo-benzylamino) -pyrrolidin-2-one; 3- (4-
Phenoxyethoxy-3-methoxy-benzylamino) -pyrrolidin-2-one;
3- (4-Phenoxyethoxy-3-methyl-benzylamino) -pyrrolidin-2-one; 3-
[4- (Naphthalen-1-ylmethoxy) -3-bromo-benzylamino] -pyrrolidin-2-
one;
3- [4- (Naphthalen-1-ylmethoxy) -3-methoxy-benzylamino] -
pyrrolidin-2- one;
3- [4- (Naphthalen-1-ylmethoxy) -3-methyl-benzylamino] -
pyrrolidin-2- one;
3- (4-Pentyloxy-3-bromo-5-methoxy-benzylamino) -pyrrolidin-2-
one;
3- (4-Pentyloxy-3, 5-dimethoxy-benzylamino) -pyrrolidin-2-one;
3- (4-Pentyloxy-3, 5-dimethyl-benzylamino) -pyrrolidin-2-one;
3- (4-Benzyloxy-3-bromo-5-methoxy-benzylamino) -pyrrolidin-2-
one;
3- (4-Benzyloxy-3, 5-dimethoxy-benzylamino) -pyrrolidin-2-one;
3- (4-Benzyloxy-3, 5-dimethyl-benzylamino) -pyrrolidin-2-one;

3- (4-Phenylallyloxy-3-bromo-5-methoxy-benzylamino) -
pyrrolidin-2- one;
3- (4-Phenylallyloxy-3, 5-dimethoxy-benzylamino) -pyrrolidin-2-
one;
3- (4-Phenylallyloxy-3, 5-dimethyl-benzylamino) -pyrrolidin-2-
one;
3- (4-Phenylpentoxy-3-bromo-5-methoxy-benzylamino) -pyrrolidin-
2- one;
3- (4-Phenylpentoxy-3, 5-dimethoxy-benzylamino) -pyrrolidin-2-
one;
3- (4-Phenylpentoxy-3, 5-dimethyl-benzylamino) -pyrrolidin-2-
one;
3- (4-Phenoxyethoxy-3-bromo-5-methoxy-benzylamino) -pyrrolidin-
2- one;
3- (4-Phenoxyethoxy-3, 5-dimethoxy-benzylamino) -pyrrolidin-2-
one;
3- (4-Phenoxyethoxy-3, 5-dimethyl-benzylamino) -pyrrolidin-2-
one;
3- [4- (Naphthalen-1-ylmethoxy) -2-chloro-5-methoxy-benzylamino] -
pyrrolidin-2-one;
3- [4- (Naphthalen-1-ylmethoxy) -3-fluoro-5-methoxy-
benzylamino] - pyrrolidin-2-one;
3- [4- (Naphthalen-1-ylmethoxy) -3-bromo-5-methoxy-benzylamino] -
pyrrolidin-2-one;
3- [4- (Naphthalen-1-ylmethoxy) -3, 5-dimethoxy-benzylamino] -
pyrrolidin-2-one;
3- [4- (Naphthalen-1-ylmethoxy) -3,5-dimethyl-benzylamino] -
pyrrolidin- 2-one;
3- [4- (2-Fluorobenzoyloxy) -benzylamino] -pyrrolidin-2-one;
3- [4- (2-Fluorobenzoyloxy) -benzylamino] -N-methylpyrrolidin-2-
one;
3- [4- (2-triFluoromethyl-benzoyloxy) -benzylamino] -pyrrolidin-
2-one;

3- [4- (2-Chlorobenzyloxy) -benzylamino] -pyrrolidin-2-one; 3- [4- (2-Methoxybenzyloxy) -benzylamino] -pyrrolidin-2-one; 3- [4- (3-Fluorobenzyloxy) -benzylamino] -pyrrolidin-2-one; 3- [4- (3-Fluorobenzyloxy) -benzylamino] -N-methylpyrrolidin-2-one; 3- {N- [4- (3-Fluorobenzyloxy) -benzyl] -N-methyl} -amino-pyrrolidin-2-one; 3- [4- (3-triFluoromethyl-benzyloxy) -benzylamino] -pyrrolidin-2-one; 3- [4- (3-Chlorobenzyloxy) -benzylamino] -pyrrolidin-2-one; 3- [4- (3-Methoxybenzyloxy) -benzylamino] -pyrrolidin-2-one; 3- [4- (3-Methoxybenzyloxy) -benzylamino] -N-methylpyrrolidin-2-one; 3- [4- (4-Fluorobenzyloxy) -benzylamino] -pyrrolidin-2-one; 3- [4- (4-Chlorobenzyloxy) -benzylamino] -pyrrolidin-2-one; 3- [4- (4-Methoxybenzyloxy) -benzylamino] -pyrrolidin-2-one; 3- [4- (4-triFluoromethyl-benzyloxy) -benzylamino] -pyrrolidin-2-one; 3- [4- (2, 3-diChlorobenzyloxy) -benzylamino] -pyrrolidin-2-one; 3- [4- (3, 4-diChlorobenzyloxy) -benzylamino] -pyrrolidin-2-one; 3- [4- (3, 4-diMethoxybenzyloxy) -benzylamino] -pyrrolidin-2-one; 3- [4- (3, 5-diMethoxybenzyloxy) -benzylamino] -pyrrolidin-2-one; 3- [4- (3, 5-diMethoxybenzyloxy) -benzylamino] -N-methylpyrrolidin-2-one; 3- [4- (3, 5-diMethoxyphenyl) -pentoxy] -benzylamino-pyrrolidin-2-one; 3- [4- (2-Fluorobenzyloxy) -3-methyl-benzylamino] -pyrrolidin-2-one; 3- [4- (2-triFluoromethyl-benzyloxy) -3-methyl-benzylamino] -pyrrolidin-2-one; 3- [4- (3-Fluorobenzyloxy) -3-methyl-benzylamino] -pyrrolidin-2-one; 3- [4- (3-Fluorobenzyloxy) -3-methyl-benzyl] -N-methylamino} -pyrrolidin-2-one;

3- [4- (3-triFluoromethyl-benzyloxy)-3-methyl-benzylamino] -
pyrrolidin- 2-one;
3-[4- (3-Chlorobenzyloxy)-3-methyl-benzylamino]-pyrrolidin-2-
one;
3- { [4- (3-Chlorobenzyloxy)-3-methyl-benzyl]-N-methylamino}-
pyrrolidin-2-one;
3- [4- (3-Bromobenzyloxy)-3-methyl-benzylamino]-pyrrolidin-2-
one;
3-f [4- (3-Bromobenzyloxy)-3-methyl-benzyl]-N-methylamino}-
pyrrolidin-2-one;
3-[4- (4-triFluoromethyl-benzyloxy)-2-chloro-benzylamino] -
pyrrolidin- 2-one;
3- [4- (4-Fluorobenzyloxy)-3-methyl-benzylamino]-pyrrolidin-2-
one;
3- [4- (4-triFluoromethyl-benzyloxy)-3-fluoro-benzylamino] -
pyrrolidin- 2-one;
3- [4- (4-triFluoromethyl-benzyloxy)-3-bromo-benzylamino] -
pyrrolidin- 2-one;
3-[4- (4-triFluoromethyl-benzyloxy)-3-methoxy-benzylamino] -
pyrrolidin-2-one;
3- [4-(4-triFluoromethyl-benzyloxy)-3-methyl-benzylamino] -
pyrrolidin- 2-one;
3- [4- (4-Chlorobenzyloxy)-3-methyl-benzylamino]-pyrrolidin-2-
one;
3- [4- (4-triFluoromethyl-benzyloxy)-3-bromo-5-methoxy-
benzylamino] - pyrrolidin-2-one;
3-[4- (4-triFluoromethyl-benzyloxy)-3, 5-dimethoxy-
benzylamino] - pyrrolidin-2-one;
3- [4- (4-triFluoromethyl-benzyloxy)-3, 5-dimethyl-
benzylamino] - pyrrolidin-2-one;
3- [4- (3, 4-diChlorobenzyloxy)-2-chloro-benzylamino] -
pyrrolidin-2-one;
3- [4- (3, 4-diChlorobenzyloxy)-3-fluoro-benzylamino] -
pyrrolidin-2-one;

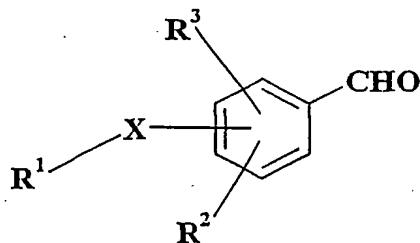
3- [4- (3, 4-diChlorobenzyloxy) -3-bromo-benzylamino] -
 pyrrolidin-2-one;
 3- [4- (3, 4-diChlorobenzyloxy) -3-methoxy-benzylamino] -
 pyrrolidin-2- one;
 3- [4- (3, 4-diChlorobenzyloxy) -3-methyl-benzylamino] -
 pyrrolidin-2-one;
 3- [4- (3, 5-diMethoxybenzyloxy) -2-chloro-benzylamino] -
 pyrrolidin-2- one;
 3- [4- (3, 5-diMethoxybenzyloxy) -3-fluoro-benzylamino] -
 pyrrolidin-2- one;
 3- [4- (3, 5-diMethoxybenzyloxy) -3-bromo-benzylamino] -
 pyrrolidin-2- one;
 3- [4- (3, 5-diMethoxybenzyloxy) -3-methoxy-benzylamino] -
 pyrrolidin-2- one;
 3- [4- (3, 5-diMethoxybenzyloxy) -3-methyl-benzylamino] -
 pyrrolidin-2- one;
 3- [4- (3, 4-diChlorobenzyloxy) -3,5-dimethoxy-benzylamino] -
 pyrrolidin- 2-one;
 3- [4- (3, 4-diChlorobenzyloxy) -3,5-dimethyl-benzylamino] -
 pyrrolidin-2- one;
 3- [4- (3, 5-diChlorobenzyloxy) -3-bromo-5-methoxy-
 benzylamino] - pyrrolidin-2-one;
 3- [4- (3, 5-diMethoxybenzyloxy) -3-bromo-5-methoxy-
 benzylamino] - pyrrolidin-2-one;
 3- [4- (3, 5-diMethoxybenzyloxy) -3, 5-dimethoxy-benzylamino] -
 pyrrolidin-2-one;
 3- [4- (3, 5-diMethoxyphenyl) -allyloxy) -3, 5-dimethoxy-
 benzylamino] - pyrrolidin-2-one;.

3- (4-Benzyloxy-benzylamino) -piperidin-2-one;
 3- (4-Benzyloxy-benzylamino) -azepan-2-one;
 3- [4- (2-Fluorobenzyloxy) -benzylamino] -piperidin-2-one;
 3- [4- (2-Fluorobenzyloxy) -benzylamino] -azepan-2-one;
 3- [4- (2-Chlorobenzyloxy) -benzylamino] -piperidin-2-one;
 3- [4- (2-Chlorobenzyloxy) -benzylamino] -azepan-2-one;

3- [4- (3-Fluorobenzyloxy) -benzylamino] -piperidin-2-one;
 3- [4- (3-Fluorobenzyloxy) -benzylamino] -azepan-2-one; 3- [4- (4-Fluorobenzyloxy) -benzylamino] -piperidin-2-one; 3- [4- (4-Fluorobenzyloxy) -benzylamino] -azepan-2-one;
 3- [4- (2-Chlorobenzylamino) -benzylamino] -piperidin-2-one; 3- [4- (2-Chlorobenzylamino) -benzylamino] -azepan-2-one;
 3- {4- [(2-Chlorobenzyl) methylamino] -benzylamino} -piperidin-2-one;
 3- {4- [(2-Chlorobenzyl) methylamino] -benzylamino} -azepan-2-one;
 3- (4-Phenoxybenzylamino) -pyrrolidin-2-one; or
 pharmaceutically acceptable salts thereof.

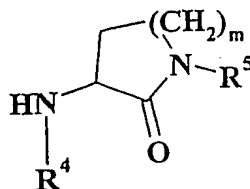
11. (new) A process for the preparation of a compound of formula I, according to claim 7, or a pharmaceutically acceptable salt thereof, the process comprising:

a) reaction of compounds of formula II



II

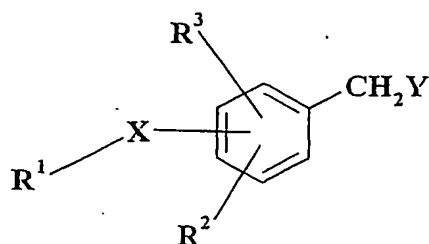
Wherein R^1, R^2, R^3 and X are as defined above with compounds of formula III, in the presence of a reducing agent



III

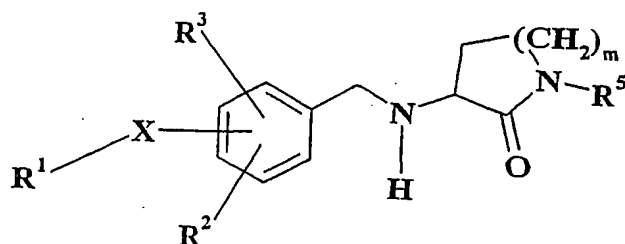
wherein m and R^5 are as defined previously thus obtaining a compound of formula I; or

b) reaction of compounds of formula IV



IV

IV wherein R^1, R^2, R^3 and X are as defined above and Y is a halogen atom or a O-EWG group, where the EWG means an electron withdrawing group, like e.g. mesyl, tosyl or trifluoroacetyl groups, able to transform the oxygen which they are linked to, in a good leaving group with compounds of formula III thus obtaining a compound of formula I; or c) reacting of a compound of formula V

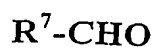


V

Wherein R^1, R^2, R^3, R^5 , X and m are as defined above, with compounds of formula VI or VII



VI



VII

wherein Y is as defined above; R⁴ is as above defined and R⁷ is hydrogen or C₁-C₅ alkyl; and, if desired, converting a compound of the invention into another compound of the invention and/or, if desired, converting a compound of the invention into a pharmaceutically acceptable salt and/or, if desired, converting a salt into a free compound and/or, if desired, separating a mixture of isomers of compounds of the invention into a single isomer.

12.(new) A pharmaceutical composition containing a compound according to claim 7, or a pharmaceutically acceptable salt thereof, in admixture with a suitable carrier and/or diluent and optionally to other therapeutic agents.

13.(new) A method for treating pain, migraine, cognitive disorders, inflammation, gastrointestinal tract disorders, disorders of the genitor urinary tract, ophthalmic diseases or obesity in a subject comprising administering to said subject an effective amount of a compound according to claim 7.

14.(new) A method for treating pain, migraine, cognitive disorders, inflammation, gastrointestinal tract disorders, disorders of the genitor urinary tract, ophthalmic diseases or obesity in a subject comprising administering to said subject an effective amount of a compound according to claim 8.

15.(new) A method for treating pain, migraine, cognitive disorders, inflammation, gastrointestinal tract disorders, disorders of the genitor urinary tract, ophthalmic diseases or obesity in a subject comprising administering to said subject an effective amount of a compound according to claim 9.

16.(new) A method for treating pain, migraine, cognitive disorders, inflammation, gastrointestinal tract disorders,

disorders of the genitor urinary tract, ophthalmic diseases or obesity in a subject comprising administering to said subject an effective amount of a compound according to claim 10.